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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/806,174	03/23/2004	Takamitsu Kawai	. 119212	2164
25944 OLIFF & BER	7590 01/25/2007 RIDGE PLC		EXAMINER	
P.O. BOX 19928 ALEXANDRIA, VA 22320			NICHOLSON III, LESLIE AUGUST	
			ART UNIT	PAPER NUMBER
			3651	
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SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE	
3 MONTHS		01/25/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

		Application No.	Applicant(s)			
Office Action Summary		10/806,174	KAWAI, TAKAMITSU			
		Examiner	Art Unit			
		Leslie A. Nicholson III	3651			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on <u>09 January 2007</u> .						
2a) This action is FINAL	This action is FINAL . 2b) This action is non-final.					
3) Since this application) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1,3-7 and 10-21 is/are pending in the application. 4a) Of the above claim(s) 16-19 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1,3-7,10-15,20,21 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 11	9					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
 Notice of References Cited (PT Notice of Draftsperson's Patent 		4) Interview Summary Paper No(s)/Mail D				
Notice of Dransperson's Patern Information Disclosure Statemed Paper No(s)/Mail Date		5) Notice of Informal F 6) Other:				

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DETAILED ACTION

Response to Arguments

1. Applicant's arguments, filed 1/9/2007, with respect to the rejection(s) of claim(s) as being unpatentable over Lightner in view of Umeda and Matsumoto have been fully considered and are persuasive. Therefore, the rejection has been withdrawn.

However, upon further consideration, a new ground(s) of rejection is made. See ¶3-8.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1,3,6,10,11,20,21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A. Umeda discloses a feeding device comprising a plurality of:
 - drive rollers (14c) having an annular recess formed in an outer circumferential surface thereof
 - that a radially outer end portion of said driven roller is positioned within said annular recess of said drive roller so that said radially outer end portion of said roller overlaps with a radially outer end portion of said drive roller (fig.4b)

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biasers (28), including flexible shafts, that biases said driven roller toward said
 drive roller

a displacement limiter (32)

Umeda does not expressly disclose an overlap-amount limiter that is unmovable by rotation of said drive roller, said overlap-amount limiter including a contact portion which is positioned within said annular recess and which is, during absence of the recording medium between said drive roller and said roller, held in contact at a surface thereof with said radially outer end portion of said drive roller.

Kabashima teaches an overlap-amount limiter (5) that is unmovable by rotation of said drive roller, said overlap-amount limiter including a contact portion which is positioned within said annular recess and which is, during absence of the recording medium between said drive roller and said roller, held in contact at a surface thereof with said radially outer end portion of said drive roller (fig.7,8,9) for the purpose of preventing the paper from buckling.

At the time of invention it would have been obvious to one having ordinary skill in the art to employ an overlap-amount limiter that is unmovable by rotation of said drive roller, said overlap-amount limiter including a contact portion which is positioned within said annular recess and which is, during absence of the recording medium between said drive roller and said roller, held in contact at a surface thereof with said radially outer end portion of said drive roller, as taught by Kabashima, in the device of Umeda, for the purpose of preventing the paper from buckling.

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4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A further in view of Rider USP 5,653,439.

Umeda discloses all the limitations of the claim, but does not expressly disclose the drive roller disposed on a downstream side, as viewed in said feed direction, of a recording portion.

Rider teaches the drive roller disposed on a downstream side, as viewed in said feed direction, of a recording portion (fig.1,5) for the purpose of discharging sheets onto the discharge tray.

At the time of invention it would have been obvious to one having ordinary skill in the art to have the drive roller disposed on a downstream side, as viewed in said feed direction, of a recording portion, as taught by Rider, in the device of Umeda, for the purpose of discharging sheets onto the discharge tray.

5. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A further in view of Taruki USP 6,254,078.

Umeda discloses all the limitations of the claim, but does not expressly disclose the contact portion of the overlap-amount limiter formed of a material, which is harder than a material forming the driven roller.

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Taruki teaches the contact portion of the overlap-amount limiter formed of a material, which is harder than a material forming the driven roller for the purpose of not obstructing the conveyance by the driven roller (C2/L54, C6/L66-67, C7/L1-4).

At the time of invention it would have been obvious to one having ordinary skill in the art to have the contact portion of the overlap-amount limiter formed of a material, which is harder than a material forming the driven roller, as taught by Taruki, in the device of Umeda, for the purpose of not obstructing the conveyance by the driven roller.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A further in view of Bekki USP 5,606,357.

Umeda discloses all the limitations of the claim, but does not expressly disclose the feeding device wherein the driven roller is formed of a resin.

Bekki teaches a driven roller formed of a resin (C4/L24-27) for the purpose of extending the wear-life of the driven roller.

At the time of invention it would have been obvious to one having ordinary skill in the art to form a driven roller of a resin, as taught by Bekki, in the device of Umeda, for the purpose of extending the wear-life of the driven roller.

7. Claims 12,13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A further in view of Uchikata USP 5,961,234.

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Umeda discloses all the limitations of the claim and further discloses the overlapamount limiter including a tongue member extending in said feed direction and which
has a proximal end portion positioned on an upstream side of said driven roller as
viewed in said feed direction (see figures), but does not expressly disclose a recording
portion which records an image on a recording medium and which is disposed on an
upstream side of said feeding device as viewed in said feed direction, a platen which is
opposed to said recording portion and supports the recording medium, and a media exit
portion through which the recording medium exits from said apparatus after the image is
recorded on the recording medium by said recording portion.

Uchikata teaches a recording portion (7) which records an image on a recording medium (S) and which is disposed on an upstream side of said feeding device as viewed in said feed direction, a platen (34) which is opposed to said recording portion and supports the recording medium, and a media exit portion through which the recording medium exits from said apparatus after the image is recorded on the recording medium by said recording portion (C6/L7L11) (fig.3) for the purpose of preventing the sheet from being smudged (C1/L26-37).

At the time of invention it would have been obvious to one having ordinary skill in the art to employ a recording portion which records an image on a recording medium and which is disposed on an upstream side of said feeding device as viewed in said feed direction, a platen which is opposed to said recording portion and supports the recording medium, and a media exit portion through which the recording medium exits from said apparatus after the image is recorded on the recording medium by said

recording portion, as taught by Uchikata, in the device of Umeda, for the purpose of preventing the sheet from being smudged.

8. Claims 14,15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Umeda JP 09086749 A in view of Kabashima JP 57072538 A and Uchikata USP 5,961,234 further in view of Matsumoto USP 6,712,463.

Umeda discloses all the limitations of the claim, but does not expressly disclose the tongue member formed integrally with and extending from the platen.

Matsumoto teaches the tongue member formed integrally with and extending from the platen (fig.6) for the purpose of providing a smooth feed directly from the platen to the feeding device.

At the time of invention it would have been obvious to one having ordinary skill in the art to have the tongue member formed integrally with and extending from the platen, as taught by Matsumoto, in the device of Umeda, for the purpose of providing a smooth feed directly from the platen to the feeding device.

Conclusion

- 9. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP

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§ 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Leslie A. Nicholson III whose telephone number is 571-272-5487. The examiner can normally be reached on M-F, 8:30 AM - 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gene Crawford can be reached on 571-272-6911. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

L.N. 1/23/2007

SUPERVISORY PATENT EXAMINER